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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/697,338 10/30/2003		Jon L. Nagel	2003-0211-US 7510		
7590 09/15/2005			EXAMINER		
Ethan D. Civan Suite 200			AL NAZER, LEITH A		
Two Penn Center Plaza			ART UNIT	PAPER NUMBER	
Philadelphia, PA 19102-1706			2821	-	

DATE MAILED: 09/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Endencions of time may be available under the provision of 37 CFR 1.73(e). In or event, however, may a reply be time; yield of the communication. Feature for poly which the set or extended period for reply will, by states, cause the application to become ABANDED (38 U.S.C.§ 13.9). Any reply received by the Office later than from enombre after the mailing date of this communication. Feature for poly which the set or extended period for reply will, by states, cause the application to become ABANDED (38 U.S.C.§ 13.9). Any reply received by the Office later than from enombre after the mailing date of this communication, even if timely filed, may reduce any seemed petrot term adjustment. Sea 7 CFR 1.70(h). Status 1) Responsive to communication(s) filled on <u>01 August 2005</u> . 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1.27 is/are rejected. 7) Claim(s) is/are allowed. 8) Claim(s) 1.27 is/are rejected to . 8) Claim(s) 1.28 is/are objected to . 8) The specification is objected to by the Examiner. 10) The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing shee(ts) including the correction is required if the drawing(s) is objected to . See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35			Application No.	Applicant(s)				
Leith A. Al-Nazer Leith A. Al-Nazer Leith A. Al-Nazer 2221 Leith A. Al-Nazer Leith A. Al-Nazer 2221 Leith A. Al-Nazer 2221 Leith A. Al-Nazer 2221 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNICATION. A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNICATION. If NO period for reply is pacified above, the measurm statutory period will apply and upper SIX (6) MONTH from the maining date of this communication. If NO period for reply is pacified above, the measurm statutory period will apply and upper SIX (6) MONTH from the maining date of this communication. If NO period for reply is pacified above, the measurm statutory period will apply and upper SIX (6) MONTH from the maining date of this communication. If NO period for reply is pacified above, the measurement of the communication of the communication. If NO period for reply is pacified above, the measurement pace of the communication of the communication. Paging the property of the pacified on 0.1 August 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s)	Office Action Summary		10/697,338	NAGEL ET AL.	(Our			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Series from the pice analised under the provisions of 37 CFR.13(8). In a covers, however, may nerely be intensified as the pice of the communication of the provisions of 37 CFR.13(8). In a covers, however, may nerely be intensified as the provision of the provisions of 37 CFR.13(8). In a covers, however, may nerely be intensified of this communication. Failurs to enjoy which the set or extended period for regive is positional between ABMORDED (SU S. C. § 133). Any reply received by the Otto later than three months after the mailing date of this communication, even if simply filed, may reduce any service period that the application. Part of 174(8). Status 1) □ Responsive to communication(s) filed on 01 August 2005. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) □ 1.22 isare pending in the application. 4a) Of the above claim(s) □ is/are withdrawn from consideration. 5) □ Claim(s) □ 1.22 isare rejected. 7) □ Claim(s) □ 1.22 isare rejected. 7) □ Claim(s) □ 1.22 isare rejected. 8) □ Claim(s) 1.22 isare rejected. 10) □ The specification is objected to by the Examiner. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9. □ The oath or equest that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PT			Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Exercision of internary be precible under the plovidence of 37 CFR 1.356(a). The orient-however, may a risply be timely filed to the control of the providence of 37 CFR 1.356(a). The orient-however, may a risply be timely filed or 11 to Open do the providence of 37 CFR 1.356(a). The orient-however, may a risply be timely filed or 11 th Open do the risply in the providence of 37 CFR 1.356(a). The providence of the providence of the communication, even if timely filed, or any order of timely will, by a fault to reply will, by a fault to reply will, by a fault to reply and we temper to the providence of this communication. - Fallure to reply will be also to extended precise original while the mailing date of this communication, even if timely filed, may reduce any security of the providence of the communication, even if timely filed, may reduce any security of the communication of timely filed. The providence of the communication of timely filed, may reduce any security of the communication of timely filed. - Septiment plant term significant or the providence of the communication, even if timely filed, may reduce any security of the communication. - Septiment plant term significant or the providence except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. - Disposition of Claims - A) Claim(s) 1-27 is/are pending in the application. - 4a) Of the above claim(s)			Leith A. Al-Nazer	2821				
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eletesians of time may be available under the provision of 30° FR 113801, Inn. event. Noweer, may a right be filled filled after SIX (8) MORTHS from the mailing date of this communication, and it pagins SIX (8) MORTHS from the mailing date of this communication, and it pagins SIX (8) MORTHS from the mailing date of this communication, and it pagins SIX (8) MORTHS from the mailing date of this communication, and it pagins SIX (8) MORTHS from the mailing date of this communication, even if timely filled, may roduce any exempt patient than adjustment. See 37 CFR 1.704(b). Status 1) ■ Responsive to communication(s) filled on 91 August 2005. 2a) ■ This action is FINAL. 2b) ■ This action is non-final. 3) ■ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ■ Claim(s) ±22 Is/are pending in the application. 4a) Of the above claim(s) — is/are withdrawn from consideration. 5) ■ Claim(s) ±32 Is/are allowed. 6) ■ Claim(s) ±32 Is/are applicated to. 8) ■ Claim(s) ±32 Is/are applicated to. 8) ■ Claim(s) ±32 Is/are application is objected to by the Examiner. 10) ■ The drawing(s) filled on 30 October 2003 and 01 August 2005 is/are: a) ■ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ■ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ■ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) ■ Some * c) ■ None of: 1. □ Certified copies of the priority documents have been received in Application No. □ October 100	The MAILING DATE Period for Reply	E of this communication app	ears on the cover sheet with	the correspondence ad	dress			
1)⊠ Responsive to communication(s) filed on <i>Q1 August 2005</i> . 2a	WHICHEVER IS LONGE - Extensions of time may be availat after SIX (6) MONTHS from the m - If NO period for reply is specified - Failure to reply within the set or example and the property of the property o	R, FROM THE MAILING DA ble under the provisions of 37 CFR 1.1 nailing date of this communication. above, the maximum statutory period vextended period for reply will, by statute ater than three months after the mailing	ATE OF THIS COMMUNICA 36(a). In no event, however, may a repl vill apply and will expire SIX (6) MONTH cause the application to become ABAN	ATION. y be timely filed S from the mailing date of this or IDONED (35 U.S.C. § 133).	, ,			
2a) ☐ This action is FINAL. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s)27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 October 2003 and 01 August 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. **National Bureau (PCT Rule 17.2(a)). **Notice of Partsperson's Patent Drawing Review (PTO-948) b) ☐ Notice of International Date.	Status							
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☐ Claim(s)2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 October 2003 and 01 August 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. **Attachment(s)** **Di Notice of Partsperson's Patent Drawing Review (PTO-948) b) ☐ Notice of International Date.	1) Responsive to com	munication(s) filed on 01 A	Jaust 2005.					
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4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are rejected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 October 2003 and 01 August 2005 is/are: a) accepted or b) objected to by the examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. **Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Trafsperson's Patent Drawing Review (PTO-948) 3) Notice of Trafsperson's Patent Drawing Review (PTO-948) 4) Information Discosure Statement(s) (PTO-1439 or PTO/SB/08)					•			
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 30 October 2003 and 01 August 2005 is/are: a) ☑ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1.□ □ Certified copies of the priority documents have been received. 2.□ □ Certified copies of the priority documents have been received in Application No 3.□ □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. **Attachment(s)** **Di Notice of References Cited (PTO-892) **Di Notice of References Cited (PTO-143) Paper No(s)/Mail Date 5) □ Notice of Informal Patent Application (PTO-152)	Disposition of Claims							
5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are rejected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 30 October 2003 and 01 August 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. **Attachment(s) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)	4)⊠ Claim(s) <u>1-27</u> is/are	_						
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7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 October 2003 and 01 August 2005 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) All interview Summary (PTO-413) Paper No(s)/Mail Date.	5) Claim(s) is/a							
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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 16, 18, and 24-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 16 recites the term "obround". This is not a well known term in the art, and as a result, Examiner is unsure what structure is attempting to be claimed with such a term.

Claims 24-26 recite the term "the radio frequency performance of a standard quarter wave isotropic antenna". This term is vague and indefinite because the radio frequency performance of a standard quarter wave isotropic antenna is not defined in the claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Art Unit: 2821

4. Claims 1-12, 14, 19, and 24-27 are rejected under 35 U.S.C. 102(a) as being anticipated by RU 2 205 478 to Lomovskaja et al.

With respect to claim 1, Lomovskaja teaches an antenna comprising a planar conductor (5₁, 5₂, and 5₃ in figure 1), wherein the planar conductor is self-supporting (figure 1); and wherein the radiating pattern of the antenna is substantially isotropic (page 2).

With respect to claim 2, Lomovskaja teaches the antenna comprising substantially no dielectric material (figure 1; page 2).

With respect to claim 3, Lomovskaja teaches the antenna comprising no more than one percent dielectric material by weight (figure 1; page 2).

With respect to claim 4, Lomovskaja teaches the planar conductor comprising at least one metal (figure 1; page 2).

With respect to claim 5, Lomovskaja teaches the antenna comprising at least ninety-nine percent metal by weight (figure 1; page 2).

With respect to claim 6, Lomovskaja teaches the antenna comprising at least ninety-five percent metal by weight (figure 1; page 2).

With respect to claim 7, Lomovskaja teaches the antenna further comprising a planar meander $(4, 5_1, 5_2, \text{ and } 5_3 \text{ in figure 1})$.

With respect to claim 8, Lomovskaja teaches a dielectric material attached to the planar conductor (6 in figure 1; page 2).

With respect to claim 9, Lomovskaja teaches the dielectric material comprising a conductive polymer (6 in figure 1; page 2).

Application/Control Number: 10/697,338

Art Unit: 2821

With respect to claim 10, Lomovskaja teaches the dielectric material shorting out a portion of the planar meander (6 in figure 1; page 2).

With respect to claim 11, Lomovskaja teaches the dielectric material forming a tuning device for the antenna (6 in figure 1; page 2).

With respect to claim 12, Lomovskaja teaches the dielectric material forming a device for matching impedance of the antenna to a device other than the antenna (6 in figure 1; page 2).

With respect to claim 14, Lomovskaja teaches the antenna being vertically polarized (page 2).

With respect to claim 19, Lomovskaja teaches the antenna being mounted on a mobile device (page 2).

With respect to claims 24-26, Lomovskaja teaches an antenna comprising a planar conductor (5₁, 5₂, and 5₃ in figure 1), wherein the planar conductor is self-supporting (figure 1); wherein the radiating pattern of the antenna is substantially isotropic (page 2); wherein the antenna is no more than eight tenths of an inch (0.8") in height; and wherein the radio frequency performance of the antenna at 2.440 gigahertz (GHz) is within three decibels (3 db) of the radio frequency performance of a standard quarter wave isotropic antenna (figure 1; page 2).

With respect to claim 27, Lomovskaja teaches the antenna being no more than one half of an inch (1/2") in height (figure 1; page 2).

Application/Control Number: 10/697,338 Page 5

Art Unit: 2821

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

6. Claim 23 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent

No. 5,754,143 to Warnagiris et al.

With respect to claim 23, Warnagiris teaches an antenna comprising a conductor

forming a partially open cylindrical shape (figures 3A-3D), wherein the conductor is self-

supporting (figures 3A-3D). Claim 23 requires that the radiating pattern of the antenna

be substantially isotropic. Although not explicitly stated, it is inherent that the radiating

pattern of the antenna of Warnagiris would be substantially isotropic for at least the

reason that the antenna of Warnagiris includes all of the structural limitations recited in

claim 23.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2821

8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over RU 2 205 478 to Lomovskaja et al. in view of U.S. Patent No. 6,061,025 to Jackson.

Claim 13 requires the antenna further comprise integral electrostatic discharge protection. Such discharge protection systems are well known in the art, as is evidenced by Jackson (column 10, lines 38-50). Therefore, at the time of the invention, it would have been obvious to one having ordinary skill in the art to utilize an electrostatic discharge protection system in the antenna taught or suggested by Lomovskaja. The motivation for doing so would have been to provide means for preventing damage to the antenna due to charge buildup.

10. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over RU 2 205 478 to Lomovskaja et al. in view of U.S. Patent No. 6,753,816 to Apostolos.

Claims 15 and 16 require a secondary planar conductor be attached to the planar conductor. Secondary planar conductors are a common configuration in the art, as is evidenced by Apostolos (16 in figure 1). Therefore, at the time of the invention, it would have been obvious to one having ordinary skill in the art to utilize a secondary planar

conductor in the system of Lomovskaja. The motivation for doing so would have been to obtain a desired radiation pattern.

With respect to claim 17, Lomovskaja teaches the planar conductor comprising a planar meander. Claim 17 requires the secondary planar conductor comprise a planar round structure. Secondary planar conductors are a common configuration in the art, as is evidenced by Apostolos (16 in figure 1). Therefore, at the time of the invention, it would have been obvious to one having ordinary skill in the art to utilize a secondary planar round conducting structure in the system of Lomovskaja. The motivation for doing so would have been to obtain a desired radiation pattern.

11. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over RU 2 205 478 to Lomovskaja et al. in view of U.S. Patent No. 6,404,394 to Hill.

Claim 20 requires the antenna comprise a mounting capable of being hand soldered into a personal computer board. Such a mounting technique is well known in the art, as is evidenced by Hill (column 3, lines 31-35). Therefore, at the time of the invention, it would have been obvious to one having ordinary skill in the art to utilize the mounting technique taught by Hill in the system taught or suggested by Lomovskaja. The motivation for doing so would have been to provide a cheap, reliable mounting technique.

Claim 21 requires the antenna comprise a mounting capable of being screwed into a personal computer board. Such a mounting technique is well known in the art, as is evidenced by Hill (column 3, lines 31-35). Therefore, at the time of the invention, it

would have been obvious to one having ordinary skill in the art to utilize the mounting technique taught by Hill in the system taught or suggested by Lomovskaja. The motivation for doing so would have been to provide a cheap, reliable mounting technique.

12. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over RU 2 205 478 to Lomovskaja et al. in view of U.S. Patent No. 5,754,143 to Warnagiris et al.

Claim 22 requires the planar conductor be malleable. Warnagiris teaches such a planar conductor (figures 3A-3D; column 4, line 30 – column 5, line 15). At the time of the invention, it would have been obvious to one having ordinary skill in the art to utilize a malleable planar conductor, as taught by Warnagiris, in the system of Lomovskaja. The motivation for doing so would have been to provide means for adjusting the overall shape of the planar meander.

Allowable Subject Matter

- 13. Claim 18 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 14. The following is a statement of reasons for the indication of allowable subject matter:

Art Unit: 2821

The prior art of record fails to teach or suggest one or more of the limitations found in dependent claim 18. Specifically, the prior art of record fails to teach or suggest the secondary planar conductor being attached to the planar meander in the center of a planar surface of the secondary planar conductor.

Response to Arguments

15. Applicant's arguments with respect to claims 1-27 have been considered but are moot in view of the new ground(s) of rejection.

Citation of Pertinent References

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patent documents further show the state of the art with respect to antenna structures comprising planar meanders:

- a. U.S. Patent No. 5,986,616 to Edvardsson
- b. U.S. Patent No. 6,069,592 to Wass
- c. U.S. Patent No. 6,107,967 to Hill
- d. U.S. Patent No. 6,642,893 to Hebron et al.

The following patent documents further show the state of the art with respect to self-supporting radiating conductors:

- e. U.S. Patent No. 4,788,550 to Chadima, Jr.
- f. U.S. Patent No. 6,181,290 to Zaitsev et al.

Application/Control Number: 10/697,338 Page 10

Art Unit: 2821

g. U.S. Patent No. 6,317,094 to Wu et al.

h. U.S. Patent Application Publication No. 2005/0057418 to Knadle, Jr. et al.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leith A. Al-Nazer whose telephone number is 571-272-1938. The examiner can normally be reached on Monday-Friday, 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LA

Wilson Lee
Primary Examiner